A.B.N. 46 009 354 352 A.C.N. 009 354 352
Greymore Holdings Pty Ltd trading as

Colin Higgins & Associates

Scale 1:500 Metric

Well Name:	**PRITCHARD 1**		
Location:	**OTWAY BASIN (ONSHORE) SW VICTORIA**		
Licence Number:	**PEP 151**	**Region:**	**VIC**
Spud Date:	**27 MAR 2006**	**Drilling Completed:**	**11 APR 2006**
Surface Coordinates:	**LAT 38 deg 0' 26.25" S**		
	LONG 141 deg 12' 35.40" E		
Bottom Hole Coordinates:			
Ground Elevation (m):	**38 m**	**K.B. Elevation (m):**	**42.3 m**
Logged Interval (m):	**40 m To:2543 m**	**Total Depth (m):**	**2543 m**
Formation:	**TD in UPPER FLAXMAN FORMATION**		
Type of Drilling Fluid:	**KCL Polymer**		

Printed by MUD.LOG from WellSight Systems Inc. 1-800-447-1534 www.wellsight.com

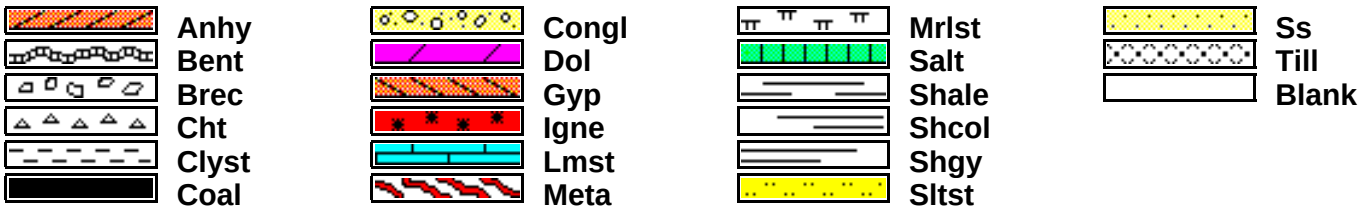
OPERATOR

Company: **ESSENTIAL PETROLEUM RESOURCES LTD**
Address: **MELBOURNE, VIC.**
www.essentialpetroleum.com.au

GEOLOGIST

Name: **GORDON WAKELIN-KING**
Company: **WAKELIN ASSOCIATES PL**
Address: **gwakelin@eprl.com.au**

ROCK TYPES



ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

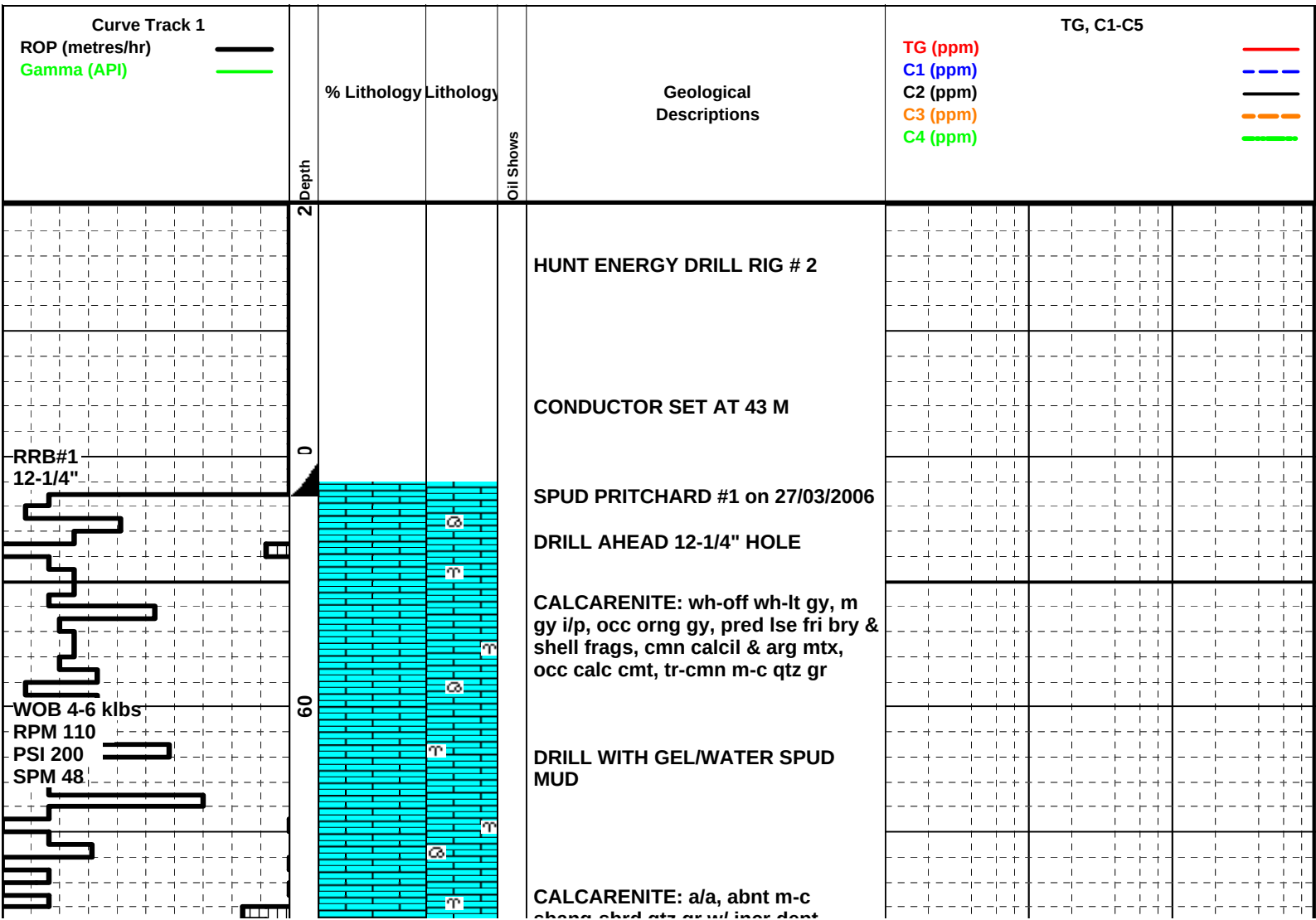
SORTING
- Well
- Moderate
- Poor

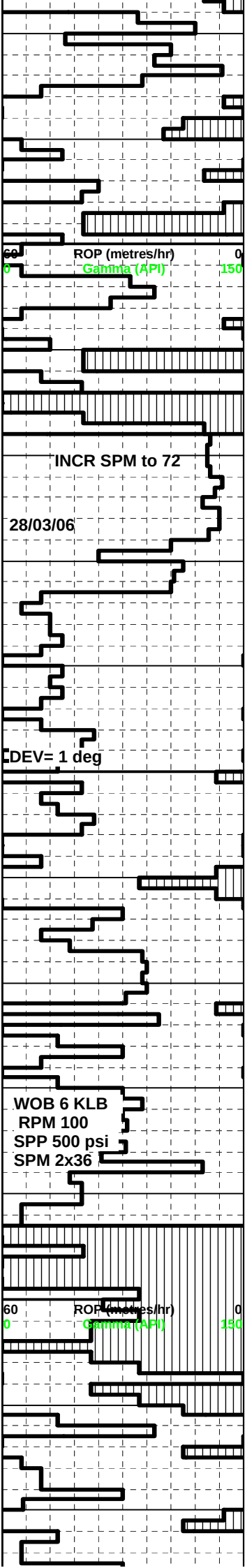
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS
- Even
- Spotted
- Ques
- Dead

INTERVALS
- None
- Core
- Dst

EVENTS
- Rft
- Sidewall
- Csg13





sbang-sbrd qtz gr w/ incr dept

CLAYSTONE: m gy-m brn gy, cmn fossil frags, sft, calc, intbd w/ lst, cmn qtz gr

SANDSTONE: lt gy-m gy-lt brn, occ orng, lse i/p, f-c sbang- rd, cmn frstd, cmn calc cmt, arg mtx, cmn pyr, cmn fe stng, tr coal liths

PYRITE: abnt-20%, micxln & cmt

CLAYSTONE: m dk gy-v dk brn, occ m brn, v sft, stky, v calc, cmn pyr, occ vf-c sbang-sbrd qtz gr, cmn bry/gast & shell frags

TG (ppm)
10 100 1000 10^4
C1 (ppm)
10 100 1000 10^4
C2 (ppm)
10 100 1000 10^4
C3 (ppm)
10 100 1000 10^4
C4 (ppm)
10 100 1000 10^4

CLAYSTONE: m dk gy-v dk brn, occ m brn, v sft, stky, v calc, cmn pyr, occ vf-c sbang-sbrd qtz gr, cmn bry/gast & shell frags

CLAYSTONE: dk gy brn-gy brn, sft-oc v hd, com pyr, tr foss, tr lse qtz, v calc i/p

SANDSTONE: clr-v lt brn-v lt gy, trnsl-rr opq, f-crs dom f-m, mod srtd, ang-sunrnd dom subang, lse w/tr arg mtx, com-abnt lse wh mica flakes, tr foss frags, fr inf por

NIL GAS

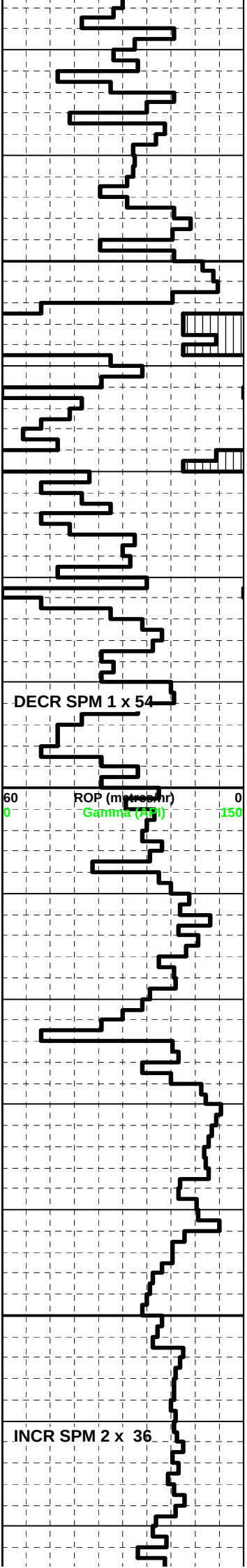
SANDSTONE: clr-v lt gy-v pl brn, f-m , w srtd, ang-rnd dom subrnd, lse, abnt lse crs mica flakes, tr-com carb silt, tr blk coal detritus, tr foss frags, tr lse pyr, gd inf por

CLAYSTONE: brn gy- dk brn, v sft-occ frm, amorph-subblky, v silty, calc, mod-v carb, tr coaly lam & frags, tr pyr, tr micas,

SANDSTONE: clr-v lt gy -v pl yel-occ wh, transl-rr opq, f-gran dom m- v crs, subang-w rnd dom rnd, w srtd, gen lse-unconsol, rr pyr,tr mica, gd-v gd inf por

TG (ppm)
10 100 1000 10^4
C1 (ppm)
10 100 1000 10^4
C2 (ppm)
10 100 1000 10^4
C3 (ppm)
10 100 1000 10^4
C4 (ppm)
10 100 1000 10^4

SANDSTONE: clr-v lt gy-occ wh, m-gran dom crs-v crs, subang-rnd, mod-w srtd, gen lse grs, tr sil cmt, tr mica, gd-v gd inf por



SANDSTONE: clr-v lt gy-occ wh, transl-occ opq, vf-crs dom f-m, subang-subrnd, mod srtd, com-abnt lse mica, tr wk sil cmt, gen lse-unconsol, tr blk coal mtl, tr brn arg mtl, fr inf por

NIL GAS

SANDSTONE: gen a/a f-m qtz, tr lse mica, tr arg mtl, gd inf por

SANDSTONE: clr-v lt gy-occ wh, transl-occ opq, vf-crs dom f-m, subang-subrnd, mod srtd, com-abnt lse mica, tr wk sil cmt, gen lse-unconsol, tr blk coal mtl, tr brn arg mtl, fr inf por

SANDSTONE: clr-v lt gy-occ wh, transl-occ opq, vf-crs dom f-m, subang-subrnd, mod srtd, com-abnt lse mica, tr wk sil cmt, gen lse-unconsol, tr blk coal mtl, tr brn arg mtl, fr inf por

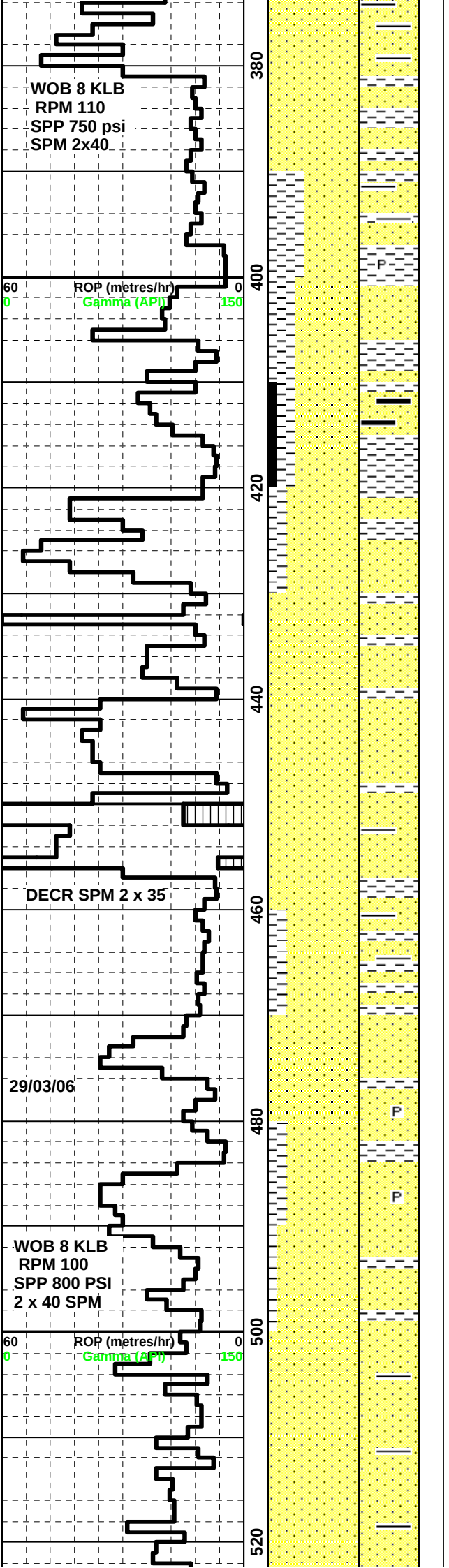
SANDSTONE: gen a/a f-m qtz, tr lse mica, tr arg mtl, gd inf por

TG (ppm) 10 100 1000 10^4
C1 (ppm) 10 100 1000 10^4
C2 (ppm) 10 100 1000 10^4
C3 (ppm) 10 100 1000 10^4
C4 (ppm) 10 100 1000 10^4

SANDSTONE: clr-v lt gy-occ wh, transl-occ opq, f-v crs dom m-crs, subang-rnd, mod srtd, tr lse mica, tr wk sil cmt, gen lse-unconsol, tr blk coal mtl, tr brn arg mtl, gd-v gd inf por

SANDSTONE: gen a/a pred m qtz, mod w srtd, tr lse mica, tr arg mtl, gd inf por

SANDSTONE: clr-v lt gy-occ wh, transl-occ opq, f-v crs, dom m-f, bcmg pred m w/incr depth, subang-rnd, mod srtd, tr lse mica, tr wk sil cmt, gen lse-unconsol, tr blk coal mtl, tr brn arg mtl, gd-v gd in



por

CLAYSTONE: m brn gy- occ m gy, v sft-occ frm, amorph-subblky, stky, silty i/p, tr qtz gr, calc, occ carb, tr coaly lam & frags, tr pyr, tr micas, Note: sample washing out

TG (ppm)
10 100 1000 10^4
C1 (ppm)
10 100 1000 10^4
C2 (ppm)
10 100 1000 10^4
C3 (ppm)
10 100 1000 10^4
C4 (ppm)
10 100 1000 10^4

COAL: blk-gy blk, frm-mod hd, sbfis-blky, slty i/p, arg i/p

MW = 9.6 PPG, FV = 41

SANDSTONE: clr-v lt gy-occ wh, transl-occ opq, f-v crs, dom m-f, bcmg pred m w/incr depth, subang-rnd, mod srtd, rr lse mica, tr wk sil cmt, gen lse-unconsol, tr blk coal mtl, tr brn arg mtl, gd-v gd inf por

CLAYSTONE: m brn gy, v sft-occ frm, amorph-subblky, stky, disp, silty i/p, tr qtz gr, rr pyr, rr micas, Note: sample washing out

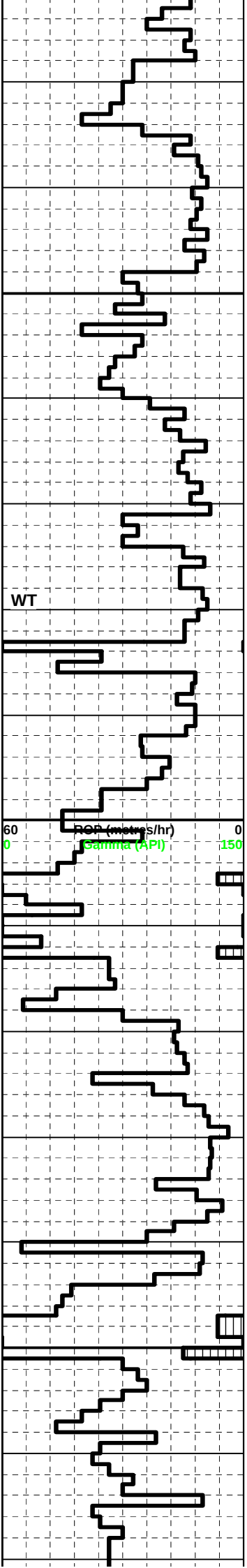
SANDSTONE: gen a/a, bcmg pred m-crs

SANDSTONE: clr-v lt gy-occ wh, f-gran dom m-crs, v pr srtd, tr brn arg mtx washing out, tr sil cmt, gen lse, com lse mica, tr carb mtl, tr lse pyr, pr-fr inf por

SANDSTONE: clr-clss-occ v pl yel wh, f-crs dom m, v w strd, lse w/tr arg mtx, ang-subrnd, tr lse mica, gd-v gd inf por

SANDSTONE: gen a/a bcmg v w srtd, clean and fine w/depth

TG (ppm)
10 100 1000 10^4
C1 (ppm)
10 100 1000 10^4
C2 (ppm)
10 100 1000 10^4
C3 (ppm)
10 100 1000 10^4
C4 (ppm)
10 100 1000 10^4



SANDSTONE: clss-clr-occ v pl yel, f-m dom f, subang-w rnd dom subrnd, v w srtd, clean w/rr tr arg mtx, v gd inf por

SANDSTONE: clss-clr-occ v pl brn-opq wh gran, f-v crs dom f-m, ang-w rnd dom subrnd, mod-w srtd, clean w/rr arg mtx, tr sil cmt, tr lith & coal frags, fr-gd inf por

Wiper Trip Gas = 0.0 units

CLAYSTONE: m brn gy- occ m gy, v sft-occ frm, amorph-subblky, stky, silty i/p, tr qtz gr, calc, occ carb, rr pyr, Note: sample washing out

TG (ppm)
10 100 1000 10^4
C1 (ppm)
10 100 1000 10^4
C2 (ppm)
10 100 1000 10^4
C3 (ppm)
10 100 1000 10^4
C4 (ppm)
10 100 1000 10^4

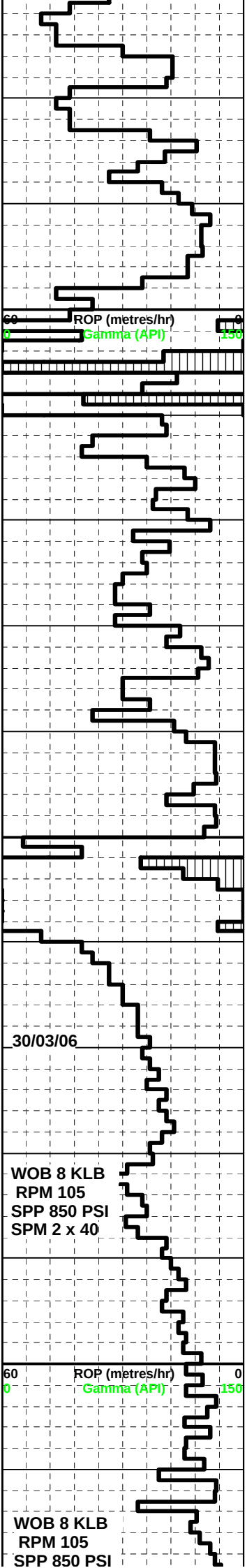
COAL: blk-gy blk, frm-mod hd, earthy where arg, sbfis-blky, slty i/p, plty - subconch fract, brit

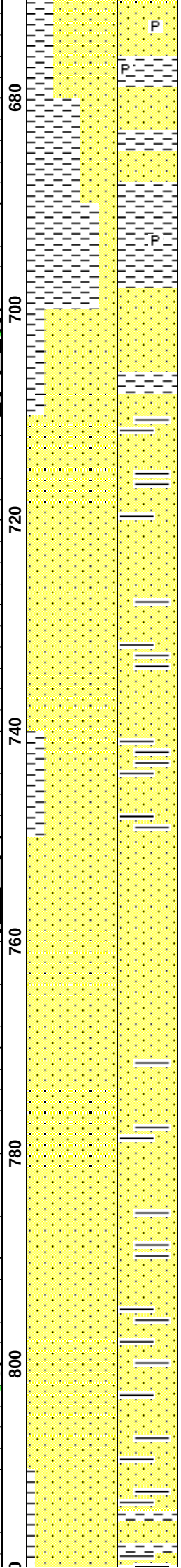
SANDSTONE: clss-clr-occ v pl brn-opq wh gran, f-v crs dom f-m, ang-w rnd dom subrnd, mod-w srtd, clean w/rr arg mtx, tr sil cmt, tr lith & coal frags, fr-gd inf por

COAL: blk-gy blk, frm-mod hd, earthy where arg, sbfis-blky, slty i/p, plty - subconch fract, brit

CLAYSTONE: m brn gy- occ m gy, v sft-occ frm, amorph-subblky, stky, silty i/p, tr qtz gr, calc, occ carb, tr pyr, Note: sample washing out

SANDSTONE: clr-v lt gy-occ wh & pl brn, f-c, dom f-m, mod srtd, bcmg c & pr srtd w/ incr depth, tr brn arg mtx washing out, tr sil cmt, gen lse, com lse mica, tr carb mtl, tr lse pyr, gd vis por





CLAYSTONE: m brn gy- occ m gy, v sft-occ frm, amorph-subblky, stky, silty i/p, tr qtz gr, calc, occ carb, tr pyr, Note: sample washing out

SANDSTONE: gen a/a, pred m-c, bcmg pred m w/incr depth, mod wl srtd

SANDSTONE: clr-v lt gy-occ wh & pl brn, f-c, dom f-m, mod wl srtd, tr arg mtx washing out, tr sil cmt, gen lse, uncons, tr lse mica, rr lse pyr, gd vis por

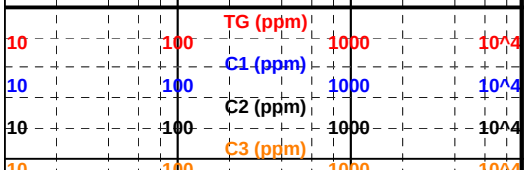
SANDSTONE: clr-v lt gy-v pl yel brn, m-crs, subang-rnd, v w srtd, tr sil cmt, gen lse, rr lith frags, v gd inf por

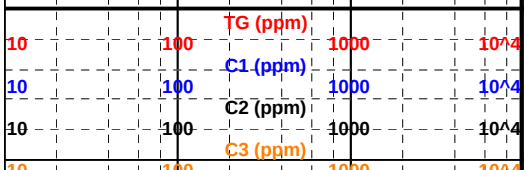
SANDSTONE: clss-clr-v lt gy-pl yel brn, f-crs dom m, subang-w rnd dom subrnd, w srtd, rr tr arg mtl, gen clean & lse, tr sil cmt, tr liths, gd inf por

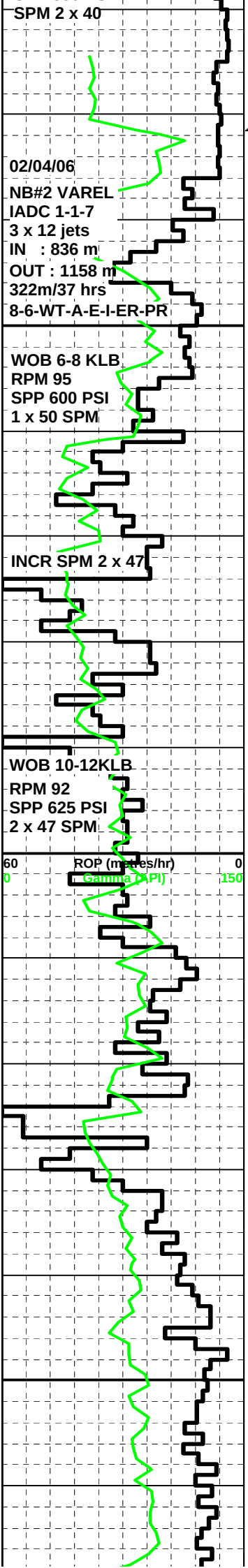
SANDSTONE: clr-v lt gy-pl yel brn-occ opq wh, f-crs dom m, subang-rnd dom subrnd, w srtd, clean w/tr arg mtx, tr sil cmt, tr liths, tr lse pyr, gd inf por

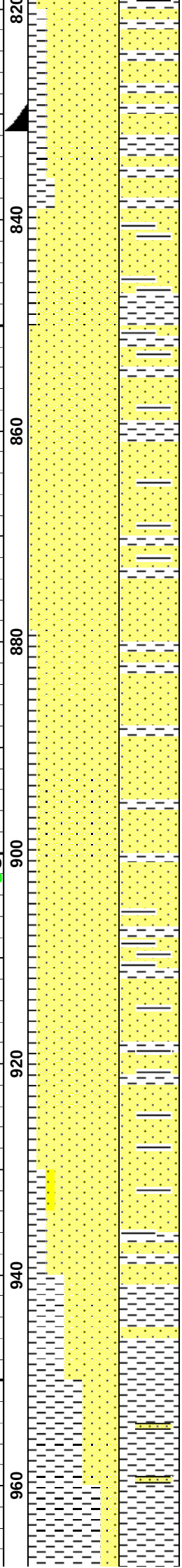
MW = 9.6 PPG, FV = 47

SANDSTONE: clr-v lt gy-pl yel brn-occ opq wh, f-crs dom m, subang-rnd dom subrnd, w srtd, clean w/tr arg mtx, tr sil cmt, tr liths, tr lse pyr, gd inf por









CARBIDE LAG = HOLE 25% OVERGAUGE

DRILLED 12-1/4" HOLE TO 836 m
SET 9-5/8" CASING AT 831 m
DISPLACE MUD TO KCL POLYMER

DRILL AHEAD 8-1/2" HOLE

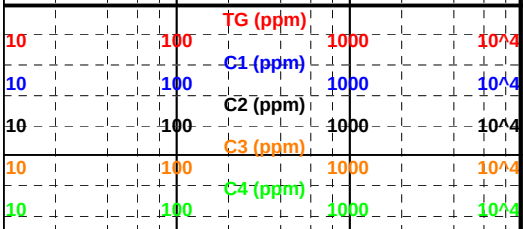
POOR QUALITY SAMPLES

SANDSTONE:clr=v lt gy-occ pl yel brn, f-crs dom f-m, subang-sub rnd, mod srtd, tr arg mtx washing out, tr sil cmt, tr liths, fr inf por

SANDSTONE:clr=v lt gy-occ pl yel brn, f-crs dom f-m, subang-sub rnd, mod srtd, tr arg mtx washing out, tr sil cmt, tr liths, fr-gd inf por

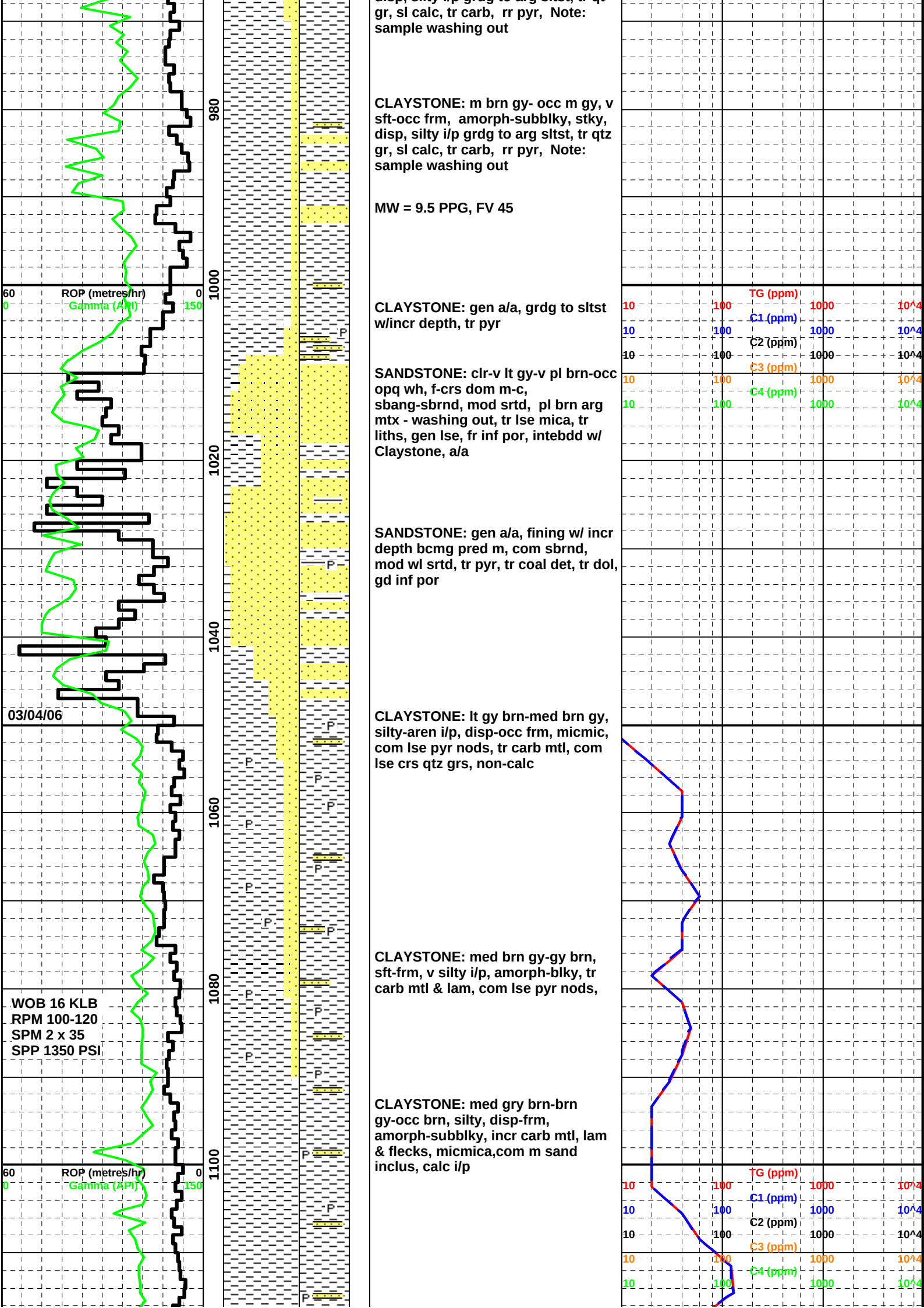
SANDSTONE: clr-v lt gy-v pl brn, f-crs incr crs i/p, subang-rnd, mod-w srtd, incr tr pl brn arg mtx washing out, incr lse mica flakes, tr sil cmt gen lse, tr liths, fr inf por

SANDSTONE: clr-v lt gy-v pl brn-occ opq wh, f-crs dom m, subang-rnd, mod srtd, incr pl brn arg mtx washing out, tr lse mica, tr liths, gen lse, fr inf por



SANDSTONE: clr-v lt gy-v pl brn-occ opq wh, f-crs dom m, subang-rnd, mod srtd, incr pl brn arg mtx washing out, tr lse mica, tr liths, gen lse, fr inf por

CLAYSTONE: m brn gy- occ m gy, v sft-occ frm, amorph-subblky, stky, disp, silty i/p grdg to arg sltst, tr gt



gr, sl calc, tr carb, rr pyr, Note: sample washing out

CLAYSTONE: m brn gy- occ m gy, v sft-occ frm, amorph-subblky, stky, disp, silty i/p grdg to arg sltst, tr qtz gr, sl calc, tr carb, rr pyr, Note: sample washing out

MW = 9.5 PPG, FV 45

CLAYSTONE: gen a/a, grdg to sltst w/incr depth, tr pyr

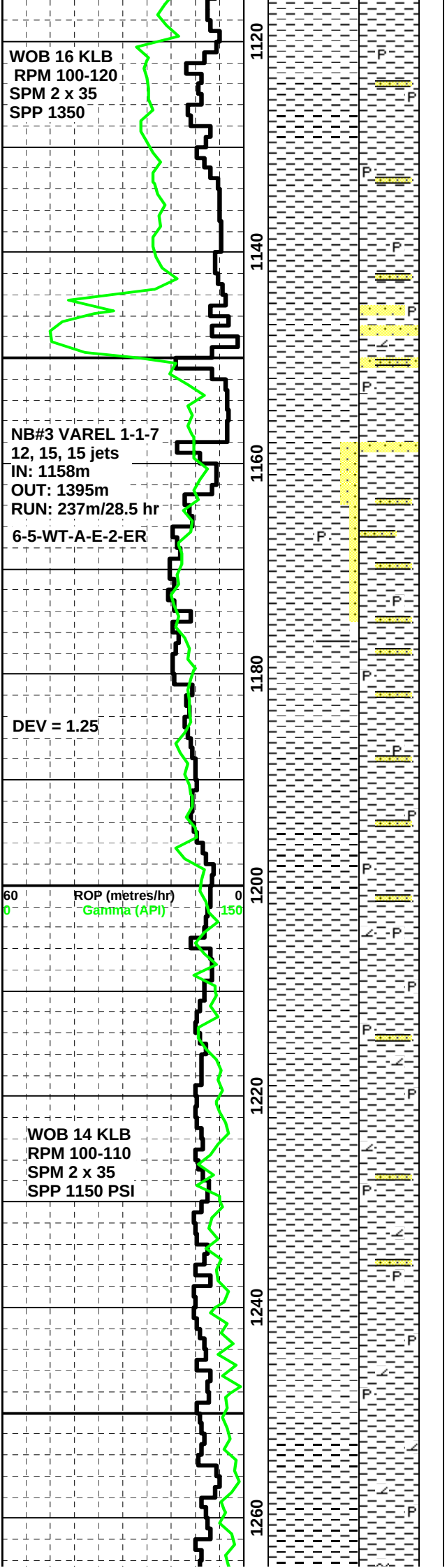
SANDSTONE: clr-v lt gy-v pl brn-occ opq wh, f-crs dom m-c, sbang-sbrnd, mod srtd, pl brn arg mtx - washing out, tr lse mica, tr liths, gen lse, fr inf por, intebdd w/ Claystone, a/a

SANDSTONE: gen a/a, fining w/ incr depth bcmg pred m, com sbrnd, mod wl srtd, tr pyr, tr coal det, tr dol, gd inf por

CLAYSTONE: lt gy brn-med brn gy, silty-aren i/p, disp-occ frm, micmic, com lse pyr nods, tr carb mtl, com lse crs qtz grs, non-calc

CLAYSTONE: med brn gy-gy brn, sft-frm, v silty i/p, amorph-blky, tr carb mtl & lam, com lse pyr nods,

CLAYSTONE: med gry brn-brn gy-occ brn, silty, disp-frm, amorph-subblky, incr carb mtl, lam & flecks, micmica,com m sand inclus, calc i/p



CLAYSTONE: med brn gy-med brn, gen a/a incr disp in mud

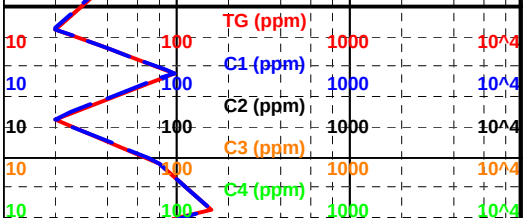
CLAYSTONE: med brn gy-med brn, gen a/a incr disp in mud: intbd w/ minor ssst stringers, tr pyr, mic mica, tr carb mat.

POOH @ 1158.6m

TG = 80 PPM C1

CLAYSTONE: med brn-brn gy-med gy, sft-frm, dom disp, incr gy blk frm-subfiss, mnr lt gy v sft, f-m sand inclus, mica, tr pyr nods, tr carb mtl/detritus, tr liths

CLAYSTONE: med brn-brn gy-med gy, sft-frm, dom disp, incr gy blk frm-subfiss and dol, mnr lt gy v sft, f-m sand inclus, mica, tr pyr nods, tr carb mat/detritus, tr liths, rr foss frag

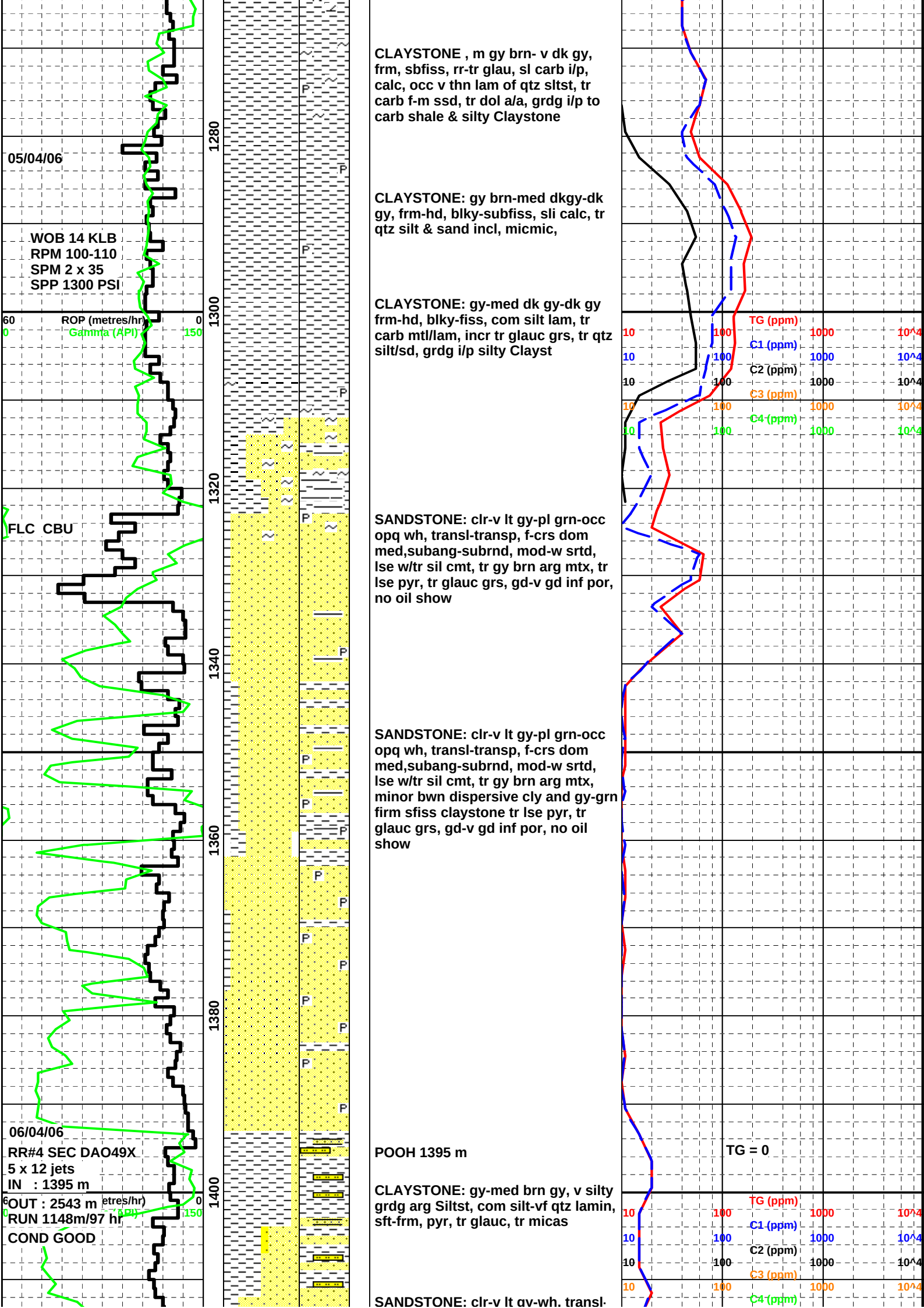


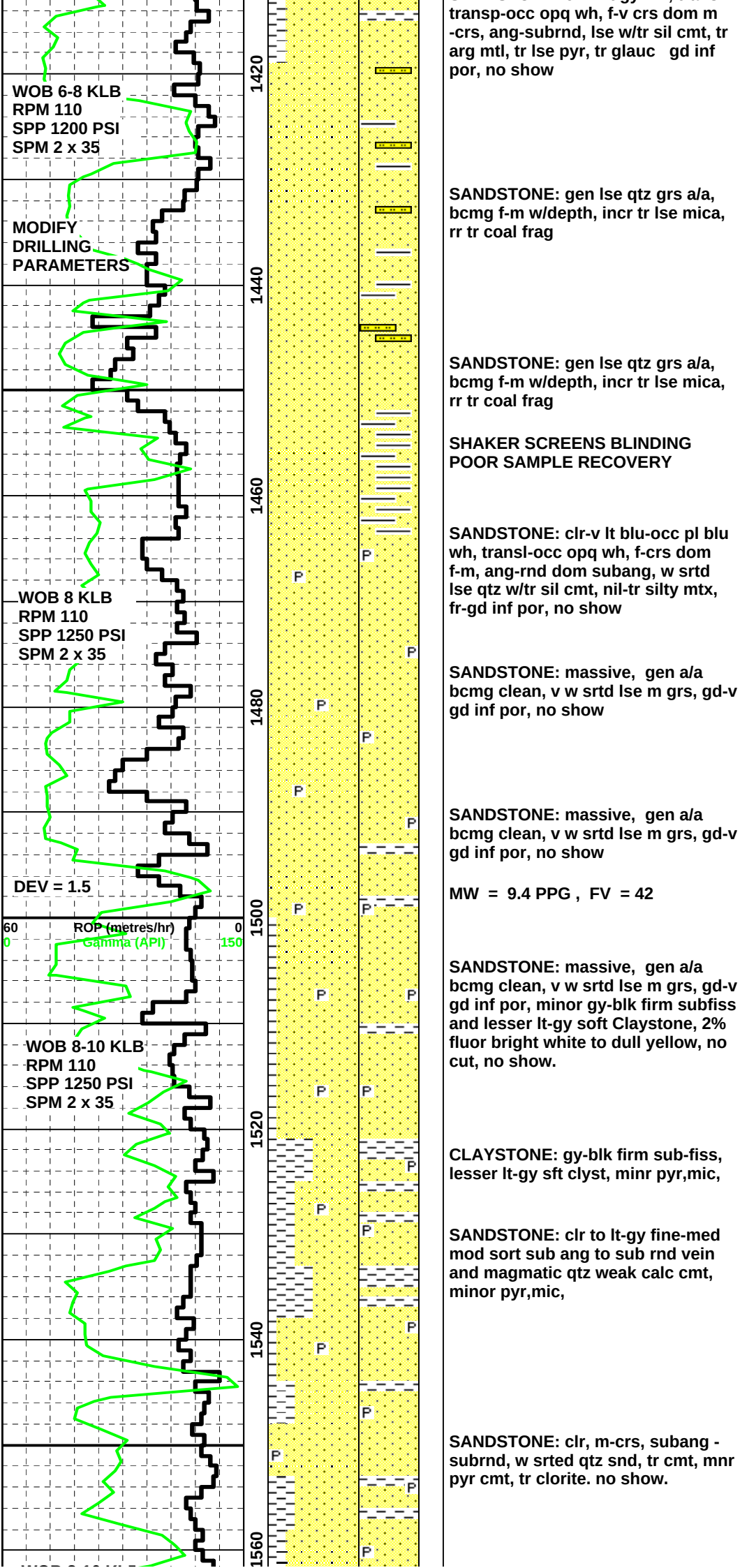
DOLOMITE, tr-3%, lt brn gy, micxln, v hd, v dull orng min fluor

CLAYSTONE: med brn gy-brn gy-med gy, sft-frm, disp i/p, incr m gy w/ incr depth, frm-subfiss, calc, mnr lt gy v sft, micmica, rr pyr nods, tr carb mat/det, tr liths, rr foss frag

MW = 9.2 PPG, FV = 43

CLAYSTONE, gen a/a grdg to Slty Clyst, bcmg pred m brn gy-dk gy, rr crin foss, tr-5% dol a/a


05/04/06
WOB 14 KLB
RPM 100-110
SPM 2 x 35
SPP 1300 PSI
60 ROP (metres/hr) 0
0 Gamma (API) 150
FLC CBU
06/04/06
RR#4 SEC DAO49X
5 x 12 jets
IN : 1395 m
OUT : 2543 m
RUN 1148m/97 hr
COND GOOD
1280
1300
1320
1340
1360
1380
1400
CLAYSTONE , m gy brn- v dk gy, frm, sbfiss, rr-tr glau, sl carb i/p, calc, occ v thn lam of qtz sltst, tr carb f-m ssd, tr dol a/a, grdg i/p to carb shale & silty Claystone
CLAYSTONE: gy brn-med dkgy-dk gy, frm-hd, blky-subfiss, sli calc, tr qtz silt & sand incl, micmic,
CLAYSTONE: gy-med dk gy-dk gy frm-hd, blky-fiss, com silt lam, tr carb mtl/lam, incr tr glauc grs, tr qtz silt/sd, grdg i/p silty Clayst
SANDSTONE: clr-v lt gy-pl grn-occ opq wh, transl-transp, f-crs dom med,subang-subrnd, mod-w srtd, lse w/tr sil cmt, tr gy brn arg mtx, tr lse pyr, tr glauc grs, gd-v gd inf por, no oil show
SANDSTONE: clr-v lt gy-pl grn-occ opq wh, transl-transp, f-crs dom med,subang-subrnd, mod-w srtd, lse w/tr sil cmt, tr gy brn arg mtx, minor bwn dispersive cly and gy-grn firm sfiss claystone tr lse pyr, tr glauc grs, gd-v gd inf por, no oil show
POOH 1395 m
CLAYSTONE: gy-med brn gy, v silty grdg arg Siltst, com silt-vf qtz lamin, sft-frm, pyr, tr glauc, tr micas
SANDSTONE: clr-v lt gy-wh, transl-
TG (ppm)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
10 100 1000 10^4
TG = 0



transp-occ opq wh, f-v crs dom m -crs, ang-subrnd, lse w/tr sil cmt, tr arg mtl, tr lse pyr, tr glauc gd inf por, no show

SANDSTONE: gen lse qtz grs a/a, bcmg f-m w/depth, incr tr lse mica, rr tr coal frag

SANDSTONE: gen lse qtz grs a/a, bcmg f-m w/depth, incr tr lse mica, rr tr coal frag

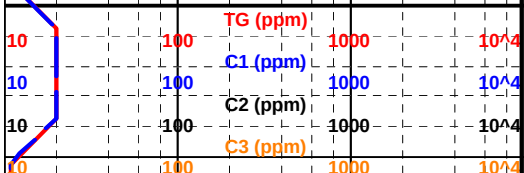
SHAKER SCREENS BLINDING
POOR SAMPLE RECOVERY

SANDSTONE: clr-v lt blu-occ pl blu wh, transl-occ opq wh, f-crs dom f-m, ang-rnd dom subang, w srtd lse qtz w/tr sil cmt, nil-tr silty mtx, fr-gd inf por, no show

SANDSTONE: massive, gen a/a bcmg clean, v w srtd lse m grs, gd-v gd inf por, no show

SANDSTONE: massive, gen a/a bcmg clean, v w srtd lse m grs, gd-v gd inf por, no show

MW = 9.4 PPG , FV = 42

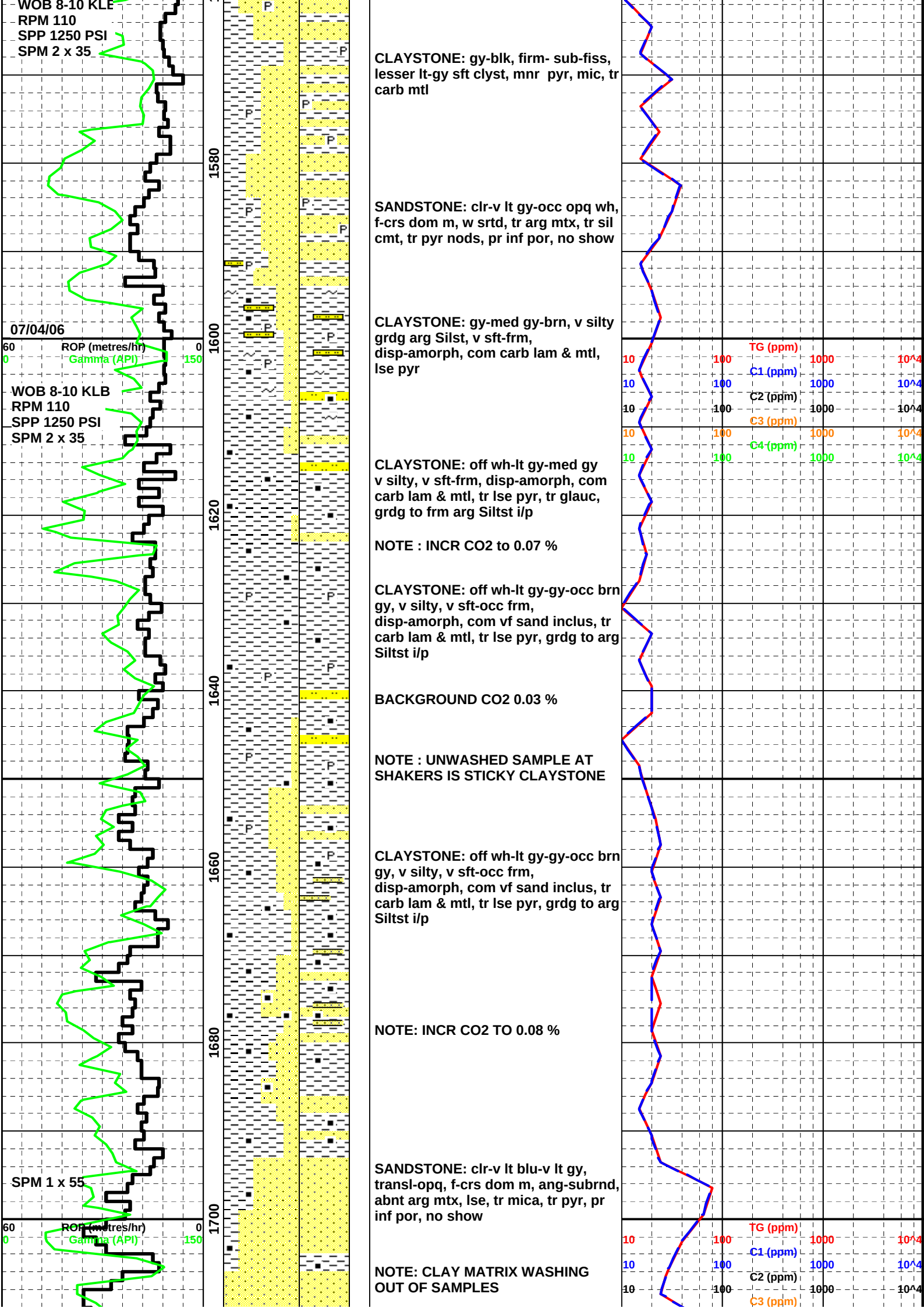


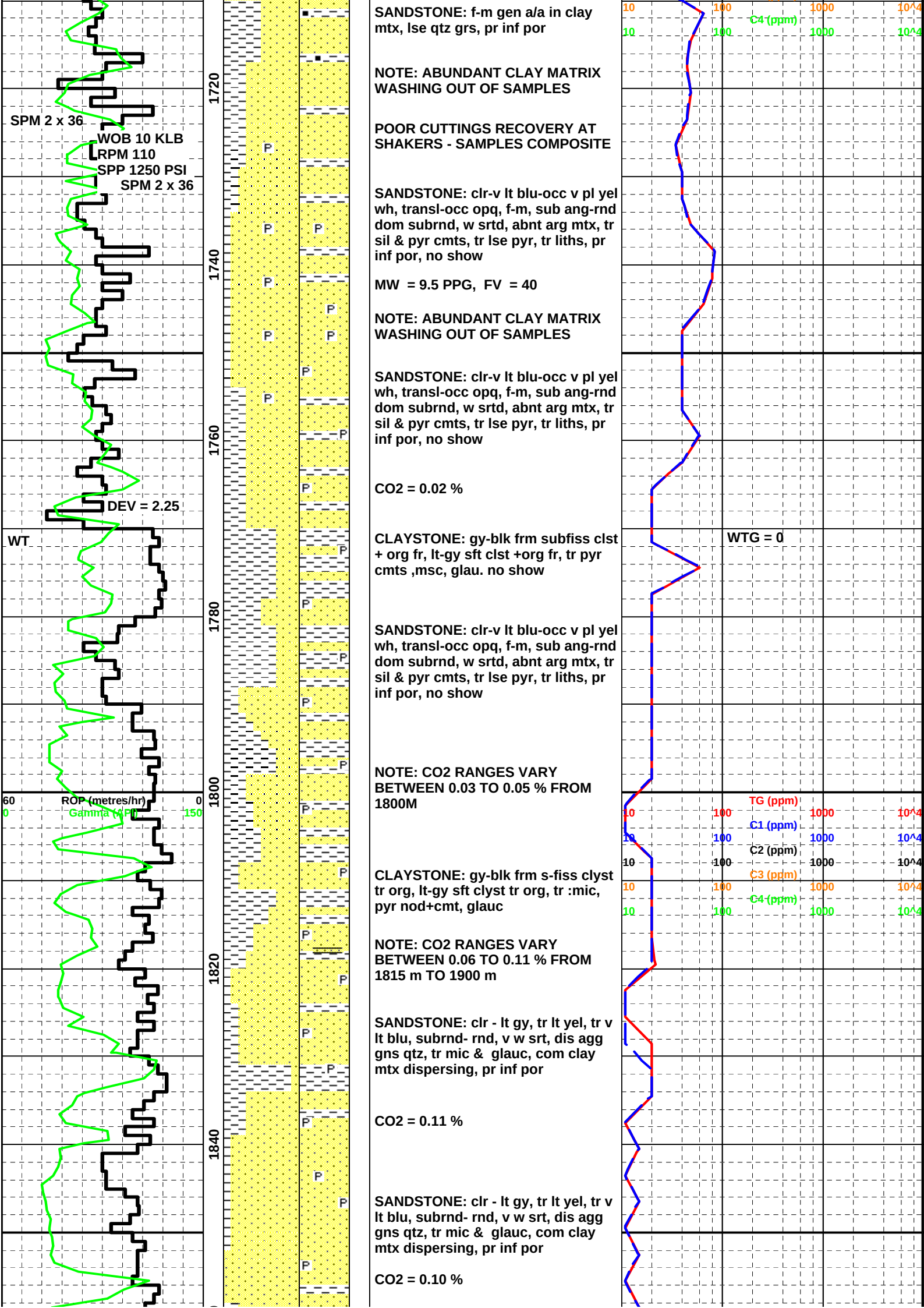
SANDSTONE: massive, gen a/a bcmg clean, v w srtd lse m grs, gd-v gd inf por, minor gy-blk firm subfiss and lesser lt-gy soft Claystone, 2% fluor bright white to dull yellow, no cut, no show.

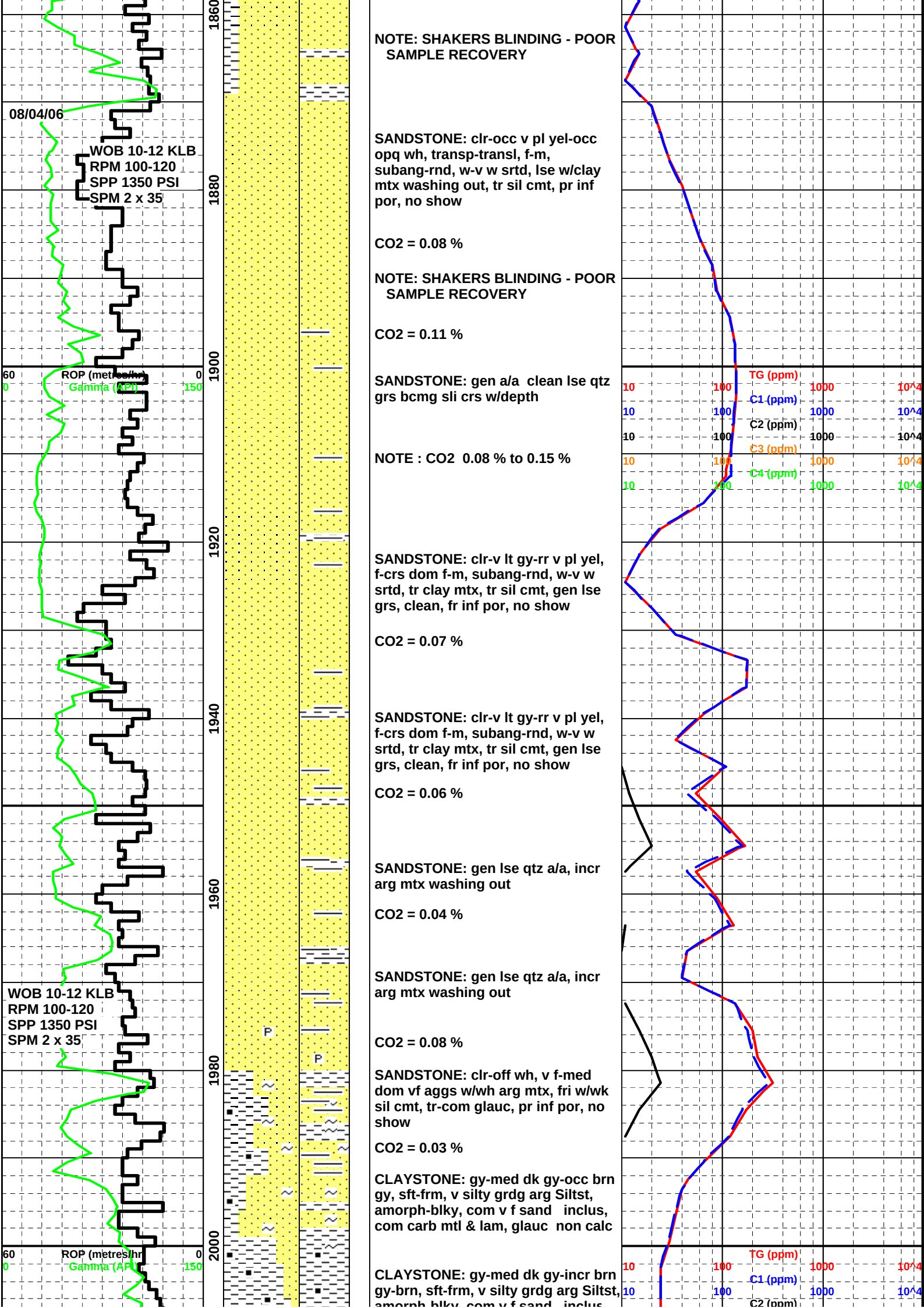
CLAYSTONE: gy-blk firm sub-fiss, lesser lt-gy sft clyst, minr pyr,mic,

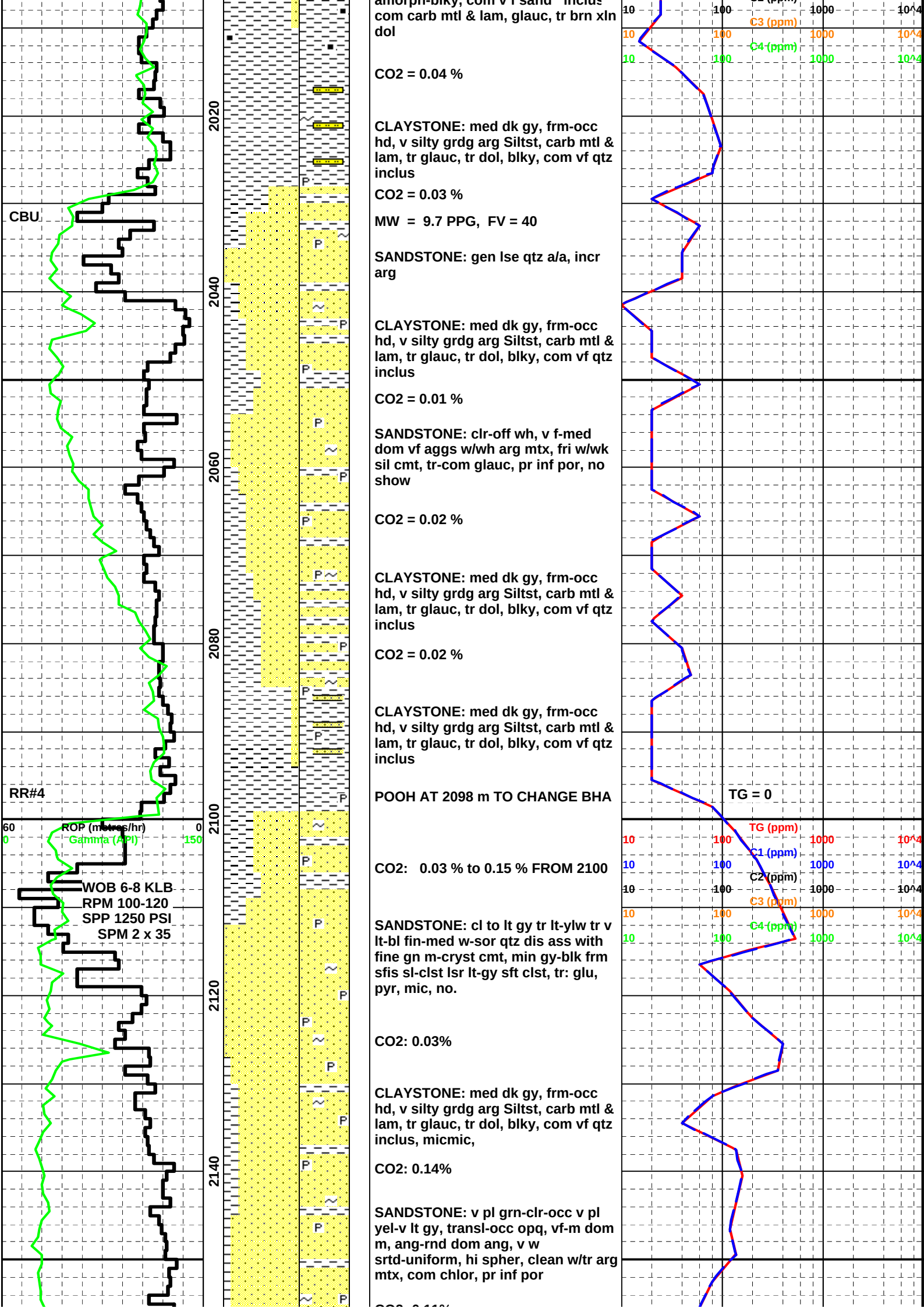
SANDSTONE: clr to lt-gy fine-med mod sort sub ang to sub rnd vein and magmatic qtz weak calc cmt, minor pyr,mic,

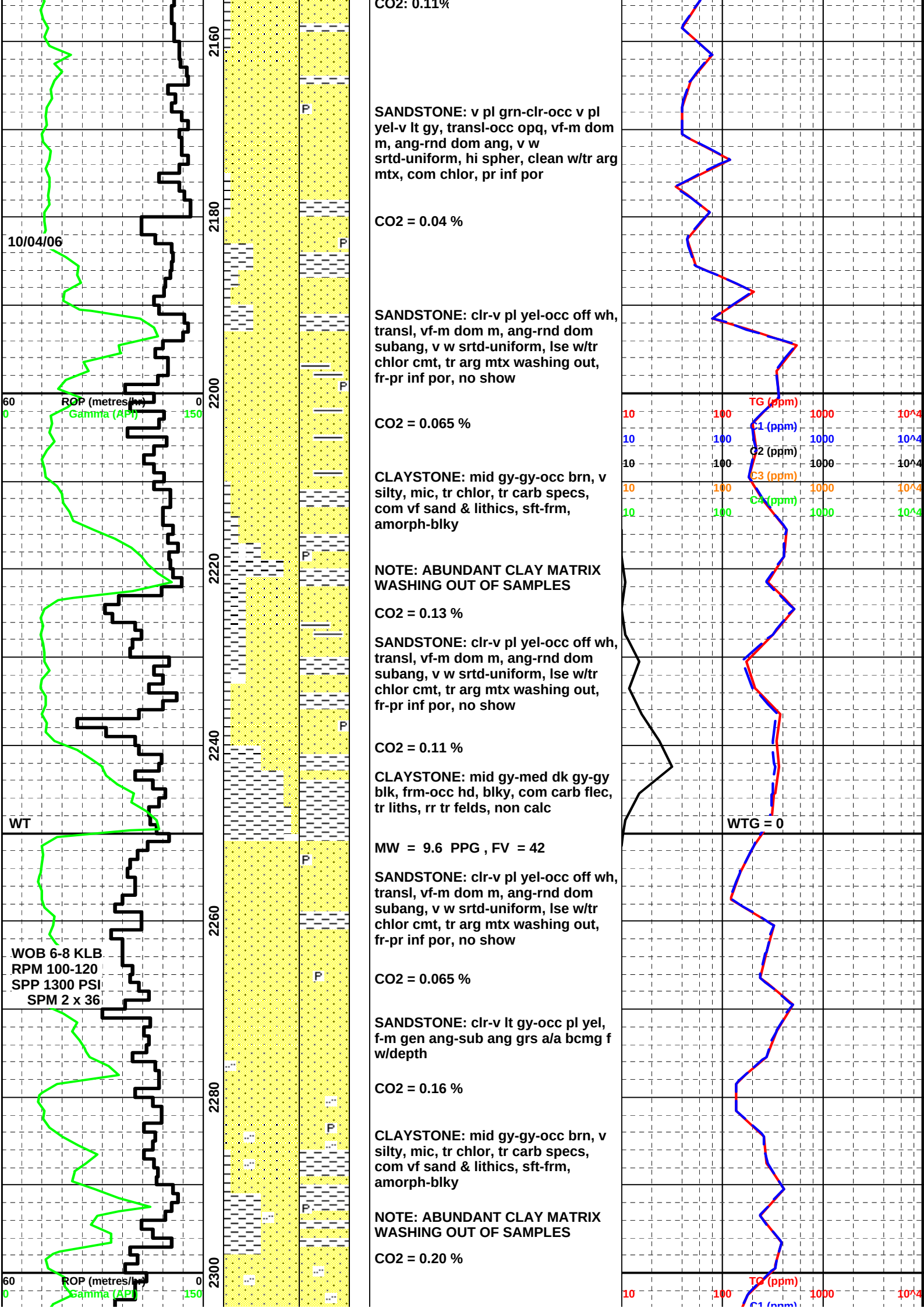
SANDSTONE: clr, m-crs, subang - subrnd, w srted qtz snd, tr cmt, mnr pyr cmt, tr clorite. no show.

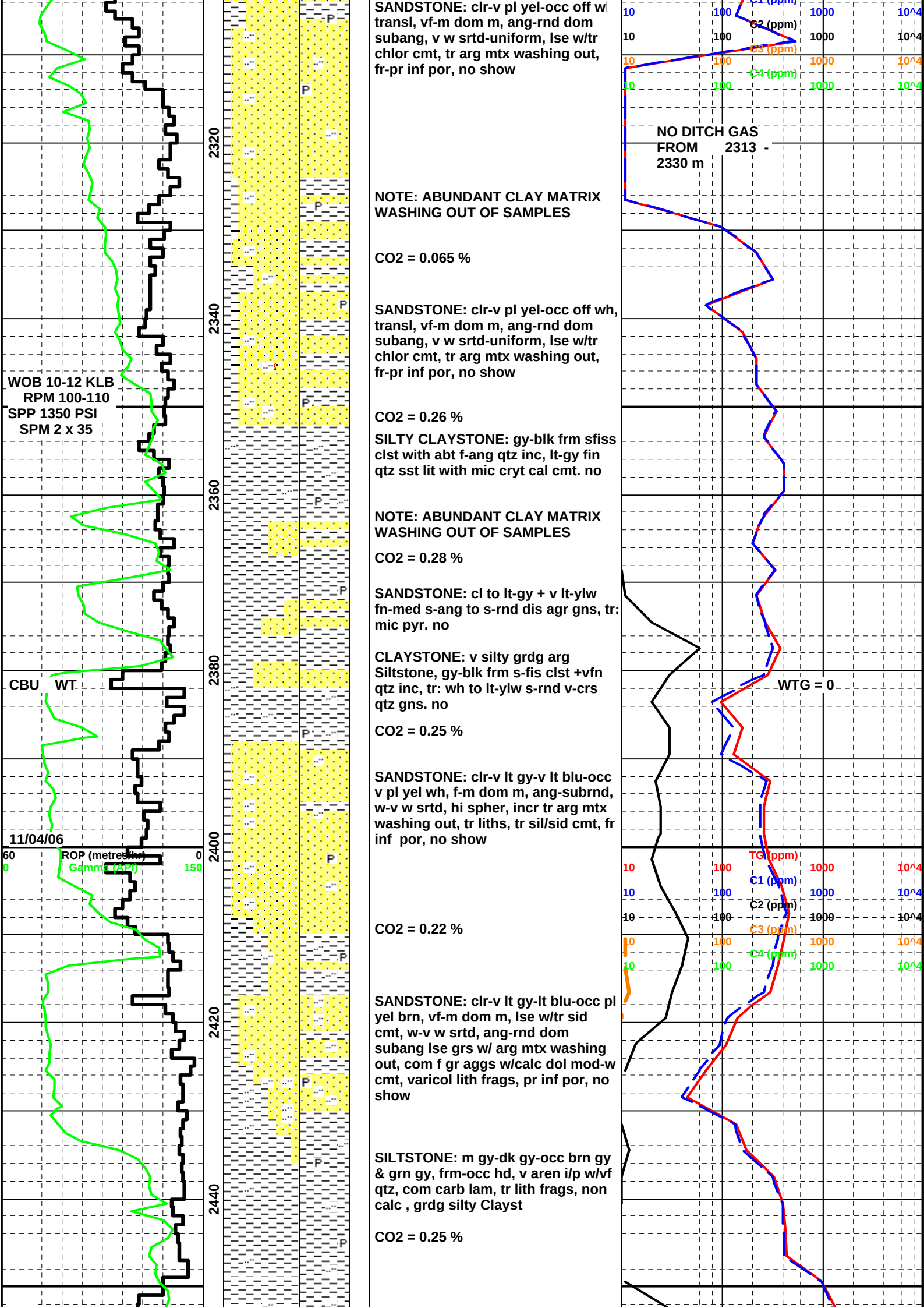

WOB 8-10 KLB
RPM 110
SPP 1250 PSI
SPM 2 x 35
07/04/06
60 ROP (metres/hr) 0
0 Gamma (API) 150
WOB 8-10 KLB
RPM 110
SPP 1250 PSI
SPM 2 x 35
SPM 1 x 55
60 ROP (metres/hr) 0
0 Gamma (API) 150
1580
1600
1620
1640
1660
1680
1700
CLAYSTONE: gy-blk, firm- sub-fiss, lesser lt-gy sft clyst, mnr pyr, mic, tr carb mtl
SANDSTONE: clr-v lt gy-occ opq wh, f-crs dom m, w srtd, tr arg mtx, tr sil cmt, tr pyr nods, pr inf por, no show
CLAYSTONE: gy-med gy-brn, v silty grdg arg Silst, v sft-frm, disp-amorph, com carb lam & mtl, lse pyr
CLAYSTONE: off wh-lt gy-med gy v silty, v sft-frm, disp-amorph, com carb lam & mtl, tr lse pyr, tr glauc, grdg to frm arg Siltst i/p
NOTE : INCR CO2 to 0.07 %
CLAYSTONE: off wh-lt gy-gy-occ brn gy, v silty, v sft-occ frm, disp-amorph, com vf sand inclus, tr carb lam & mtl, tr lse pyr, grdg to arg Siltst i/p
BACKGROUND CO2 0.03 %
NOTE : UNWASHED SAMPLE AT SHAKERS IS STICKY CLAYSTONE
CLAYSTONE: off wh-lt gy-gy-occ brn gy, v silty, v sft-occ frm, disp-amorph, com vf sand inclus, tr carb lam & mtl, tr lse pyr, grdg to arg Siltst i/p
NOTE: INCR CO2 TO 0.08 %
SANDSTONE: clr-v lt blu-v lt gy, transl-opq, f-crs dom m, ang-subrnd, abnt arg mtx, lse, tr mica, tr pyr, pr inf por, no show
NOTE: CLAY MATRIX WASHING OUT OF SAMPLES
TG (ppm)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
10 100 1000 10^4

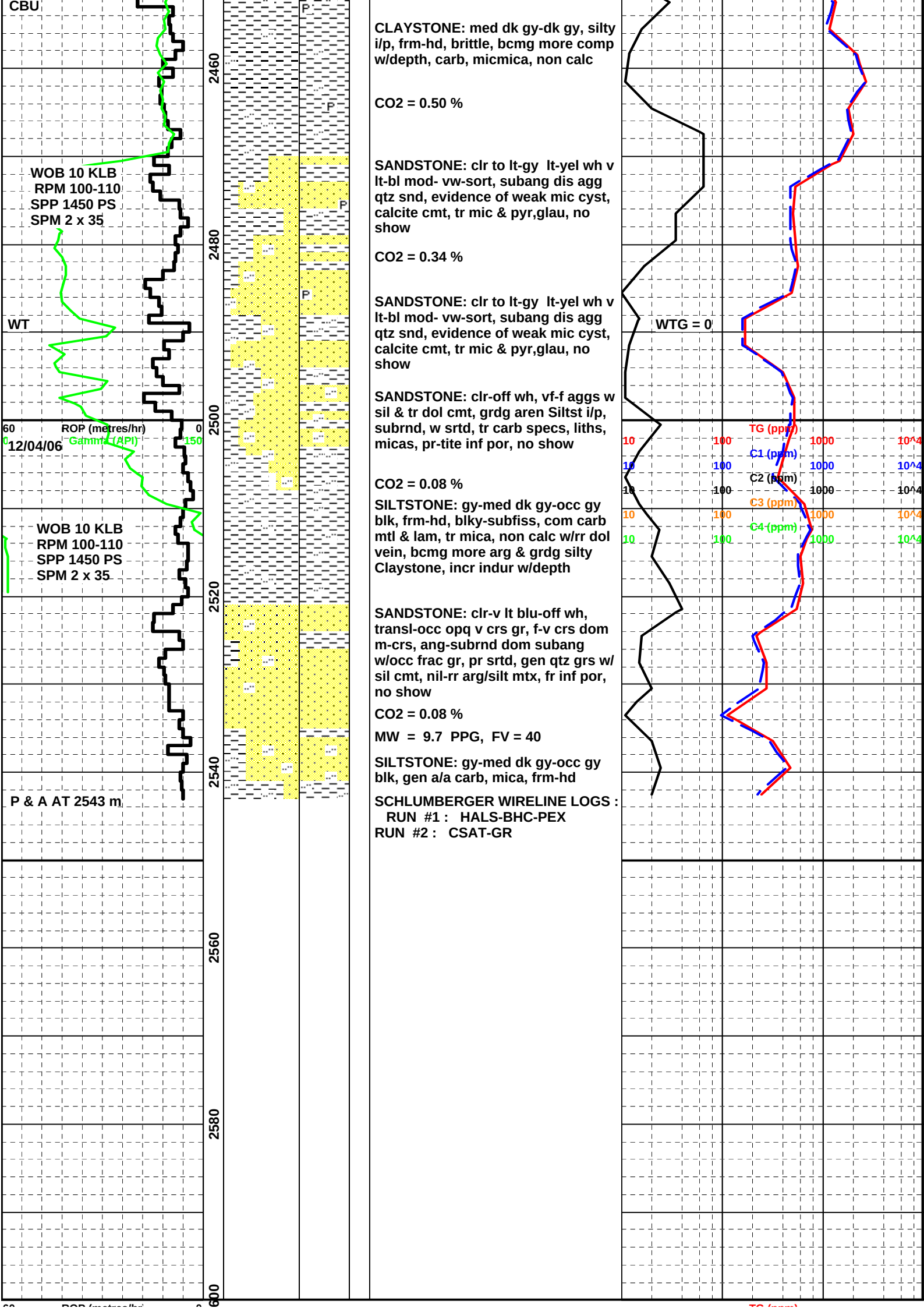

SPM 2 x 36
WOB 10 KLB
RPM 110
SPP 1250 PSI
SPM 2 x 36
DEV = 2.25
WT
60
ROP (metres/hr)
0
0
Gamma (API)
150
1720
1740
1760
1780
1800
1820
1840
SANDSTONE: f-m gen a/a in clay mtx, lse qtz grs, pr inf por
NOTE: ABUNDANT CLAY MATRIX WASHING OUT OF SAMPLES
POOR CUTTINGS RECOVERY AT SHAKERS - SAMPLES COMPOSITE
SANDSTONE: clr-v lt blu-occ v pl yel wh, transl-occ opq, f-m, sub ang-rnd dom subrnd, w srtd, abnt arg mtx, tr sil & pyr cmts, tr lse pyr, tr liths, pr inf por, no show
MW = 9.5 PPG, FV = 40
NOTE: ABUNDANT CLAY MATRIX WASHING OUT OF SAMPLES
SANDSTONE: clr-v lt blu-occ v pl yel wh, transl-occ opq, f-m, sub ang-rnd dom subrnd, w srtd, abnt arg mtx, tr sil & pyr cmts, tr lse pyr, tr liths, pr inf por, no show
CO2 = 0.02 %
CLAYSTONE: gy-blk frm subfiss clst + org fr, lt-gy sft clst +org fr, tr pyr cmts ,msc, glau. no show
WTG = 0
SANDSTONE: clr-v lt blu-occ v pl yel wh, transl-occ opq, f-m, sub ang-rnd dom subrnd, w srtd, abnt arg mtx, tr sil & pyr cmts, tr lse pyr, tr liths, pr inf por, no show
NOTE: CO2 RANGES VARY BETWEEN 0.03 TO 0.05 % FROM 1800M
CLAYSTONE: gy-blk frm s-fiss clyst tr org, lt-gy sft clyst tr org, tr :mic, pyr nod+cmt, glauc
NOTE: CO2 RANGES VARY BETWEEN 0.06 TO 0.11 % FROM 1815 m TO 1900 m
SANDSTONE: clr - lt gy, tr lt yel, tr v lt blu, subrnd- rnd, v w srt, dis agg gns qtz, tr mic & glauc, com clay mtx dispersing, pr inf por
CO2 = 0.11 %
SANDSTONE: clr - lt gy, tr lt yel, tr v lt blu, subrnd- rnd, v w srt, dis agg gns qtz, tr mic & glauc, com clay mtx dispersing, pr inf por
CO2 = 0.10 %
10
100
1000
10^4
C4 (ppm)
TG (ppm)
C1 (ppm)
C2 (ppm)
C3 (ppm)


08/04/06
WOB 10-12 KLB
RPM 100-120
SPP 1350 PSI
SPM 2 x 35
60
ROP (metres/hr)
0
0
Gamma (API)
150
1860
1880
1900
1920
1940
1960
1980
2000
NOTE: SHAKERS BLINDING - POOR SAMPLE RECOVERY
SANDSTONE: clr-occ v pl yel-occ opq wh, transp-transl, f-m, subang-rnd, w-v w srtd, lse w/clay mtx washing out, tr sil cmt, pr inf por, no show
CO2 = 0.08 %
NOTE: SHAKERS BLINDING - POOR SAMPLE RECOVERY
CO2 = 0.11 %
SANDSTONE: gen a/a clean lse qtz grs bcmg sli crs w/depth
NOTE : CO2 0.08 % to 0.15 %
SANDSTONE: clr-v lt gy-rr v pl yel, f-crs dom f-m, subang-rnd, w-v w srtd, tr clay mtx, tr sil cmt, gen lse grs, clean, fr inf por, no show
CO2 = 0.07 %
SANDSTONE: clr-v lt gy-rr v pl yel, f-crs dom f-m, subang-rnd, w-v w srtd, tr clay mtx, tr sil cmt, gen lse grs, clean, fr inf por, no show
CO2 = 0.06 %
SANDSTONE: gen lse qtz a/a, incr arg mtx washing out
CO2 = 0.04 %
SANDSTONE: gen lse qtz a/a, incr arg mtx washing out
WOB 10-12 KLB
RPM 100-120
SPP 1350 PSI
SPM 2 x 35
CO2 = 0.08 %
SANDSTONE: clr-off wh, v f-med dom vf aggs w/wh arg mtx, fri w/wk sil cmt, tr-com glauc, pr inf por, no show
CO2 = 0.03 %
CLAYSTONE: gy-med dk gy-occ brn gy, sft-frm, v silty grdg arg Siltst, amorph-blky, com v f sand inclus, com carb mtl & lam, glauc non calc
CLAYSTONE: gy-med dk gy-incr brn gy-brn, sft-frm, v silty grdg arg Siltst,
TG (ppm)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
10
100
1000
10^4


CBU
RR#4
60
0
ROP (metres/hr)
0
Gamma (API)
150
WOB 6-8 KLB
RPM 100-120
SPP 1250 PSI
SPM 2 x 35
2020
2040
2060
2080
2100
2120
2140
amorph-blky, com v f sand "inclus
com carb mtl & lam, glauc, tr brn xln dol
CO2 = 0.04 %
CLAYSTONE: med dk gy, frm-occ hd, v silty grdg arg Siltst, carb mtl & lam, tr glauc, tr dol, blky, com vf qtz inclus
CO2 = 0.03 %
MW = 9.7 PPG, FV = 40
SANDSTONE: gen lse qtz a/a, incr arg
CLAYSTONE: med dk gy, frm-occ hd, v silty grdg arg Siltst, carb mtl & lam, tr glauc, tr dol, blky, com vf qtz inclus
CO2 = 0.01 %
SANDSTONE: clr-off wh, v f-med dom vf aggs w/wh arg mtx, fri w/wk sil cmt, tr-com glauc, pr inf por, no show
CO2 = 0.02 %
CLAYSTONE: med dk gy, frm-occ hd, v silty grdg arg Siltst, carb mtl & lam, tr glauc, tr dol, blky, com vf qtz inclus
CO2 = 0.02 %
CLAYSTONE: med dk gy, frm-occ hd, v silty grdg arg Siltst, carb mtl & lam, tr glauc, tr dol, blky, com vf qtz inclus
POOH AT 2098 m TO CHANGE BHA
CO2: 0.03 % to 0.15 % FROM 2100
SANDSTONE: cl to lt gy tr lt-ylw tr v lt-bl fin-med w-sor qtz dis ass with fine gn m-cryst cmt, min gy-blk frm sfis sl-clst lsr lt-gy sft clst, tr: glu, pyr, mic, no.
CO2: 0.03%
CLAYSTONE: med dk gy, frm-occ hd, v silty grdg arg Siltst, carb mtl & lam, tr glauc, tr dol, blky, com vf qtz inclus, micmic,
CO2: 0.14%
SANDSTONE: v pl grn-clr-occ v pl yel-v lt gy, transl-occ opq, vf-m dom m, ang-rnd dom ang, v w srtd-uniform, hi spher, clean w/tr arg mtx, com chlor, pr inf por
C3 (ppm)
C4 (ppm)
10
100
1000
10^4
TG = 0
TG (ppm)
C1 (ppm)
C2 (ppm)


CO2: 0.11%
SANDSTONE: v pl grn-clr-occ v pl yel-v lt gy, transl-occ opq, vf-m dom m, ang-rnd dom ang, v w srtd-uniform, hi spher, clean w/tr arg mtx, com chlor, pr inf por
CO2 = 0.04 %
10/04/06
SANDSTONE: clr-v pl yel-occ off wh, transl, vf-m dom m, ang-rnd dom subang, v w srtd-uniform, lse w/tr chlor cmt, tr arg mtx washing out, fr-pr inf por, no show
60 ROP (metres/hr) 0
0 Gamma (API) 150
CO2 = 0.065 %
TG (ppm)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
10 100 1000 10^4
CLAYSTONE: mid gy-gy-occ brn, v silty, mic, tr chlor, tr carb specs, com vf sand & lithics, sft-frm, amorph-blky
NOTE: ABUNDANT CLAY MATRIX WASHING OUT OF SAMPLES
CO2 = 0.13 %
SANDSTONE: clr-v pl yel-occ off wh, transl, vf-m dom m, ang-rnd dom subang, v w srtd-uniform, lse w/tr chlor cmt, tr arg mtx washing out, fr-pr inf por, no show
CO2 = 0.11 %
CLAYSTONE: mid gy-med dk gy-gy blk, frm-occ hd, blky, com carb flec, tr liths, rr tr felds, non calc
WT
WTG = 0
MW = 9.6 PPG , FV = 42
SANDSTONE: clr-v pl yel-occ off wh, transl, vf-m dom m, ang-rnd dom subang, v w srtd-uniform, lse w/tr chlor cmt, tr arg mtx washing out, fr-pr inf por, no show
WOB 6-8 KLB
RPM 100-120
SPP 1300 PSI
SPM 2 x 36
CO2 = 0.065 %
SANDSTONE: clr-v lt gy-occ pl yel, f-m gen ang-sub ang grs a/a bcmg f w/depth
CO2 = 0.16 %
CLAYSTONE: mid gy-gy-occ brn, v silty, mic, tr chlor, tr carb specs, com vf sand & lithics, sft-frm, amorph-blky
NOTE: ABUNDANT CLAY MATRIX WASHING OUT OF SAMPLES
CO2 = 0.20 %
60 ROP (metres/hr) 0
0 Gamma (API) 150
TG (ppm)
C1 (ppm)
10 100 1000 10^4
2160
2180
2200
2220
2240
2260
2280
2300
P


SANDSTONE: clr-v pl yel-occ off wh, transl, vf-m dom m, ang-rnd dom subang, v w srtd-uniform, lse w/tr chlor cmt, tr arg mtx washing out, fr-pr inf por, no show
NO DITCH GAS FROM 2313 - 2330 m
NOTE: ABUNDANT CLAY MATRIX WASHING OUT OF SAMPLES
CO2 = 0.065 %
SANDSTONE: clr-v pl yel-occ off wh, transl, vf-m dom m, ang-rnd dom subang, v w srtd-uniform, lse w/tr chlor cmt, tr arg mtx washing out, fr-pr inf por, no show
WOB 10-12 KLB
RPM 100-110
SPP 1350 PSI
SPM 2 x 35
CO2 = 0.26 %
SILTY CLAYSTONE: gy-blk frm sfiss clst with abt f-ang qtz inc, lt-gy fin qtz sst lit with mic cryt cal cmt. no
NOTE: ABUNDANT CLAY MATRIX WASHING OUT OF SAMPLES
CO2 = 0.28 %
SANDSTONE: cl to lt-gy + v lt-ylw fn-med s-ang to s-rnd dis agr gns, tr: mic pyr. no
CBU WT
CLAYSTONE: v silty grdg arg Siltstone, gy-blk frm s-fis clst +vfn qtz inc, tr: wh to lt-ylw s-rnd v-crs qtz gns. no
WTG = 0
CO2 = 0.25 %
11/04/06
SANDSTONE: clr-v lt gy-v lt blu-occ v pl yel wh, f-m dom m, ang-subrnd, w-v w srtd, hi spher, incr tr arg mtx washing out, tr liths, tr sil/sid cmt, fr inf por, no show
ROP (metres/hr)
Gamma (API)
TG (ppm)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
CO2 = 0.22 %
SANDSTONE: clr-v lt gy-lt blu-occ pl yel brn, vf-m dom m, lse w/tr sid cmt, w-v w srtd, ang-rnd dom subang lse grs w/ arg mtx washing out, com f gr aggs w/calc dol mod-w cmt, varicol lith frags, pr inf por, no show
SILTSTONE: m gy-dk gy-occ brn gy & grn gy, frm-occ hd, v aren i/p w/vf qtz, com carb lam, tr lith frags, non calc , grdg silty Clayst
CO2 = 0.25 %
2320
2340
2360
2380
2400
2420
2440


CBU
WOB 10 KLB
RPM 100-110
SPP 1450 PS
SPM 2 x 35
WT
60
ROP (metres/hr)
0
0
Gamma (API)
150
12/04/06
WOB 10 KLB
RPM 100-110
SPP 1450 PS
SPM 2 x 35
P & A AT 2543 m
2460
2480
2500
2520
2540
2560
2580
600
P
P
P
P
CLAYSTONE: med dk gy-dk gy, silty i/p, frm-hd, brittle, bcmg more comp w/depth, carb, micmica, non calc
CO2 = 0.50 %
SANDSTONE: clr to lt-gy lt-yel wh v lt-bl mod- vw-sort, subang dis agg qtz snd, evidence of weak mic cyst, calcite cmt, tr mic & pyr,glau, no show
CO2 = 0.34 %
SANDSTONE: clr to lt-gy lt-yel wh v lt-bl mod- vw-sort, subang dis agg qtz snd, evidence of weak mic cyst, calcite cmt, tr mic & pyr,glau, no show
SANDSTONE: clr-off wh, vf-f aggs w sil & tr dol cmt, grdg aren Siltst i/p, subrnd, w srtd, tr carb specs, liths, micas, pr-tite inf por, no show
CO2 = 0.08 %
SILTSTONE: gy-med dk gy-occ gy blk, frm-hd, blky-subfiss, com carb mtl & lam, tr mica, non calc w/rr dol vein, bcmg more arg & grdg silty Claystone, incr indur w/depth
SANDSTONE: clr-v lt blu-off wh, transl-occ opq v crs gr, f-v crs dom m-crs, ang-subrnd dom subang w/occ frac gr, pr srtd, gen qtz grs w/ sil cmt, nil-rr arg/silt mtx, fr inf por, no show
CO2 = 0.08 %
MW = 9.7 PPG, FV = 40
SILTSTONE: gy-med dk gy-occ gy blk, gen a/a carb, mica, frm-hd
SCHLUMBERGER WIRELINE LOGS :
RUN #1 : HALS-BHC-PEX
RUN #2 : CSAT-GR
WTG = 0
TG (ppm)
10
100
1000
10^4
C1 (ppm)
10
100
1000
10^4
C2 (ppm)
10
100
1000
10^4
C3 (ppm)
10
100
1000
10^4
C4 (ppm)
10
100
1000
10^4